OIPE IAP52
NOV 14 2005
PATENT & TRADEMARK OFFICE



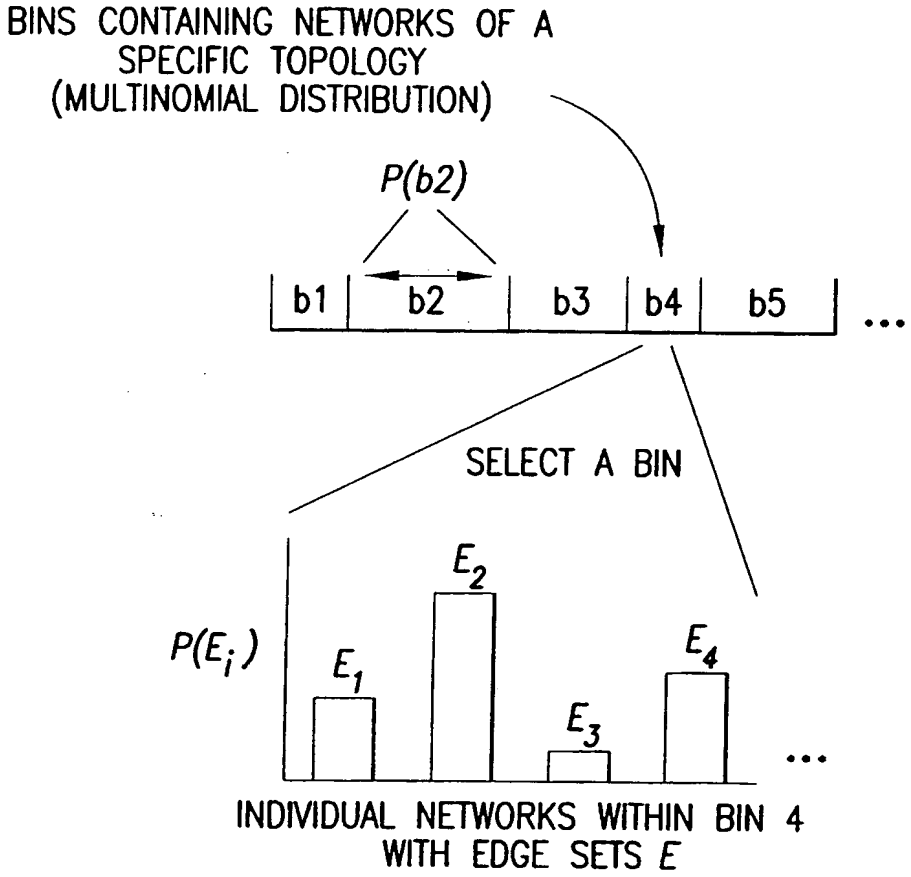



FIG.1

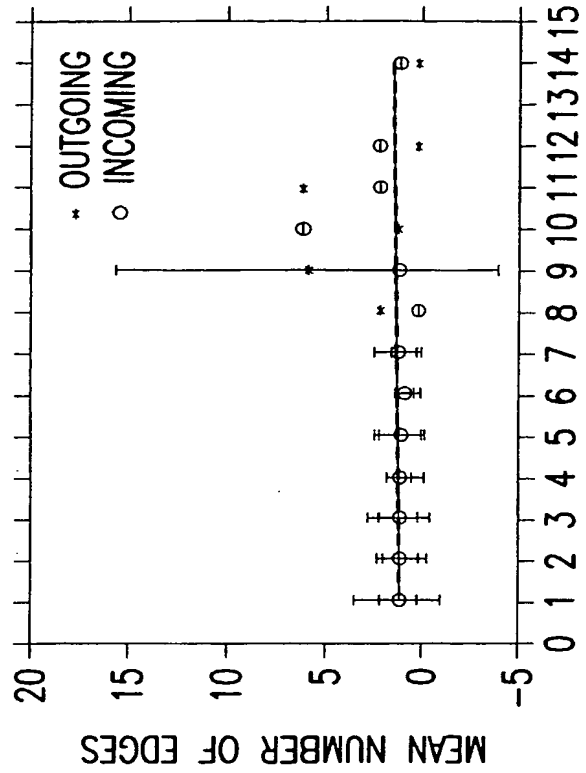

* OUTGOING
o INCOMING
MEAN NUMBER OF EDGES
20
15
10
5
0
-5
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
DOMAINS/PROTEIN

FIG. 2B

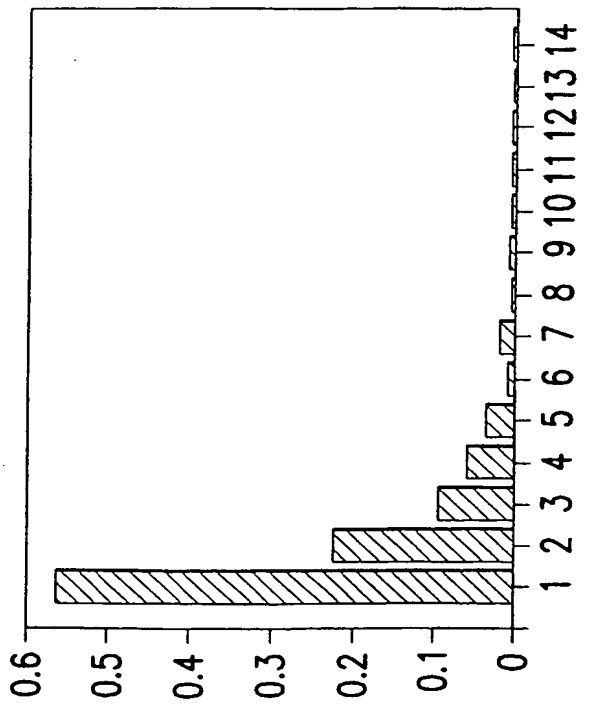

0.6
0.5
0.4
0.3
0.2
0.1
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14
NUMBER OF DOMAINS

FIG. 2A

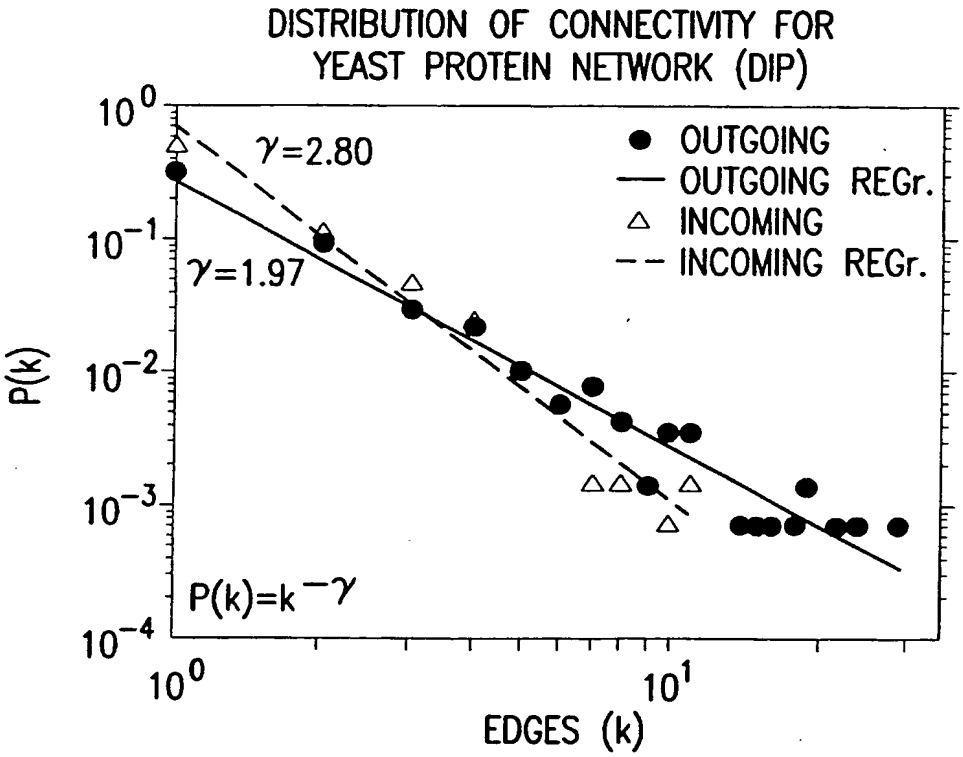

DISTRIBUTION OF CONNECTIVITY FOR
YEAST PROTEIN NETWORK (DIP)
$10^0$
$10^{-1}$
$10^{-2}$
$10^{-3}$
$10^{-4}$
P(k)
$\gamma$=2.80
$\gamma$=1.97
P(k)=k$^{-\gamma}$
OUTGOING
OUTGOING REGr.
INCOMING
INCOMING REGr.
$10^0$
$10^1$
EDGES (k)

FIG. 3

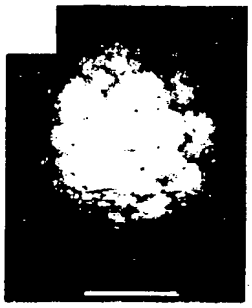


FIG.4A

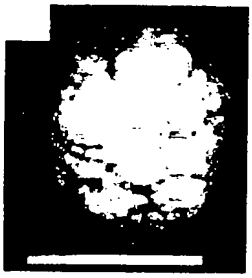


FIG.4B

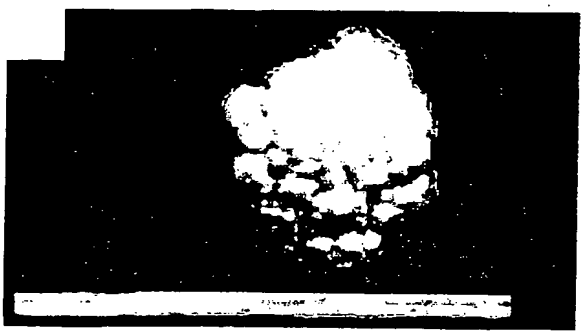


FIG.4C

LOG(L)=−36.1

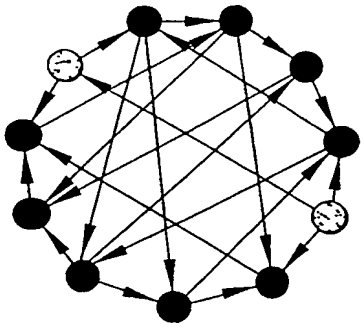


FIG. 5A

LOG(L)=−10.3

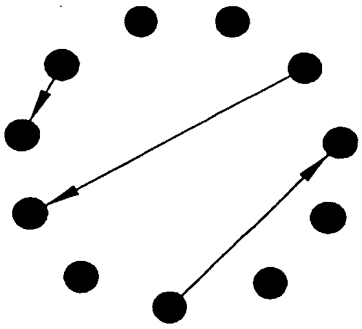


FIG. 5B

LOG(L)=−9.2

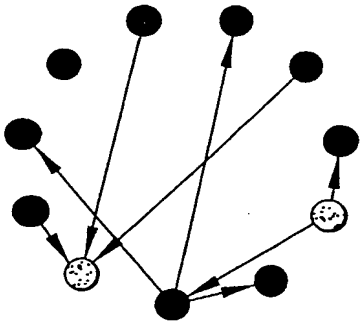


FIG. 5C

LOG(L)=−9.7

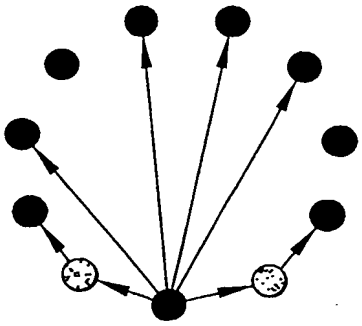


FIG. 5D

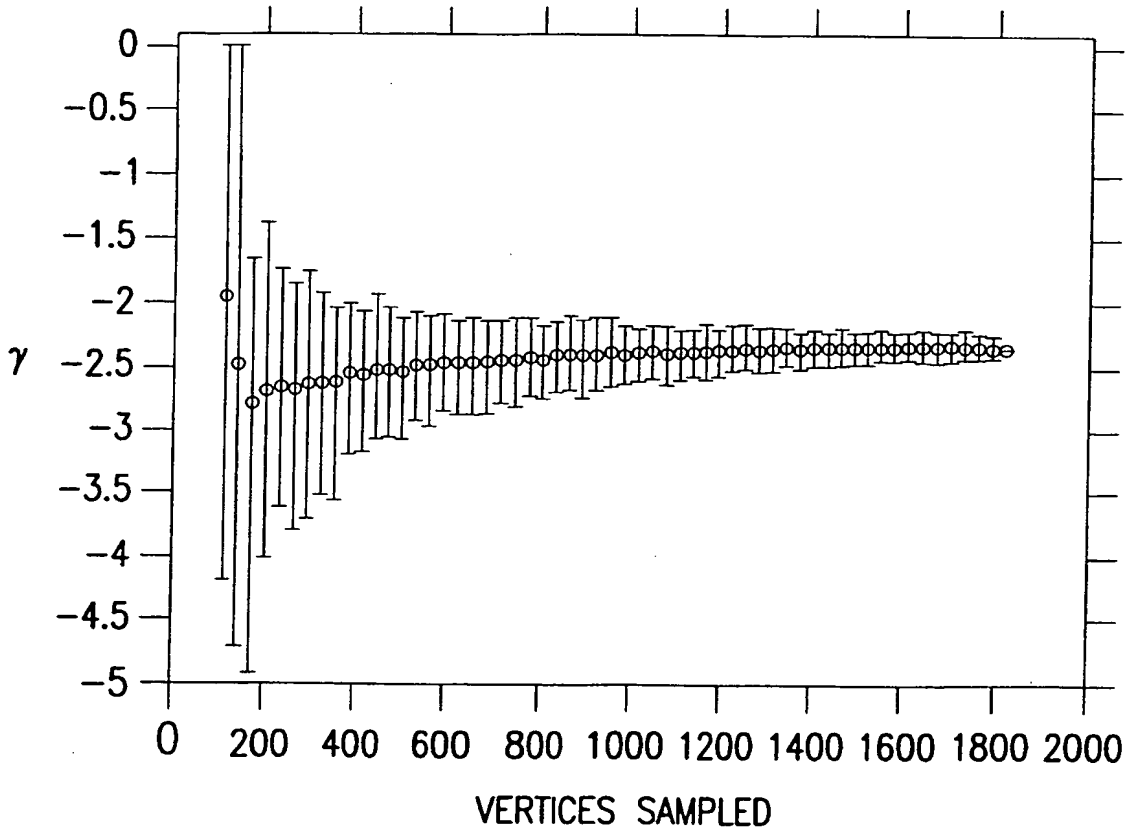

0
−0.5
−1
−1.5
−2
γ
−2.5
−3
−3.5
−4
−4.5
−5
0
200
400
600
800
1000
1200
1400
1600
1800
2000
VERTICES SAMPLED

FIG. 6

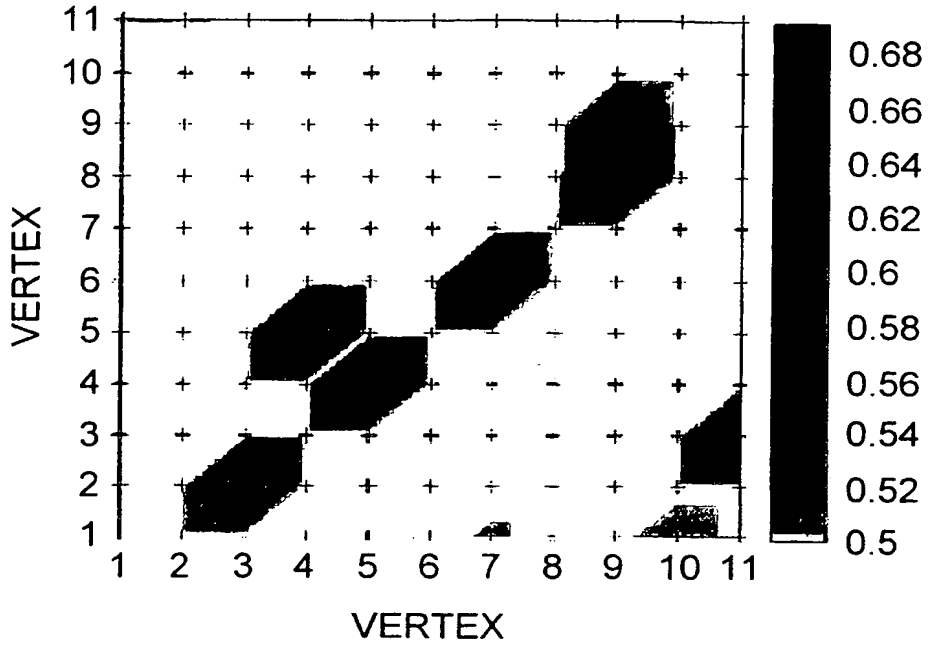

VERTEX
VERTEX
1 2 3 4 5 6 7 8 9 10 11
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5

FIG.7A

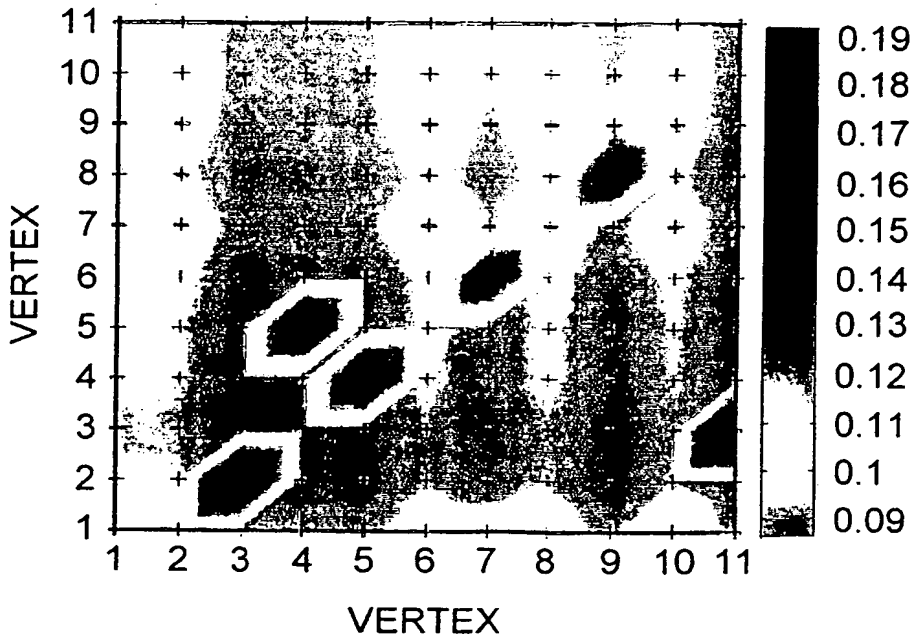

VERTEX
VERTEX
1 2 3 4 5 6 7 8 9 10 11
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09

FIG.7B

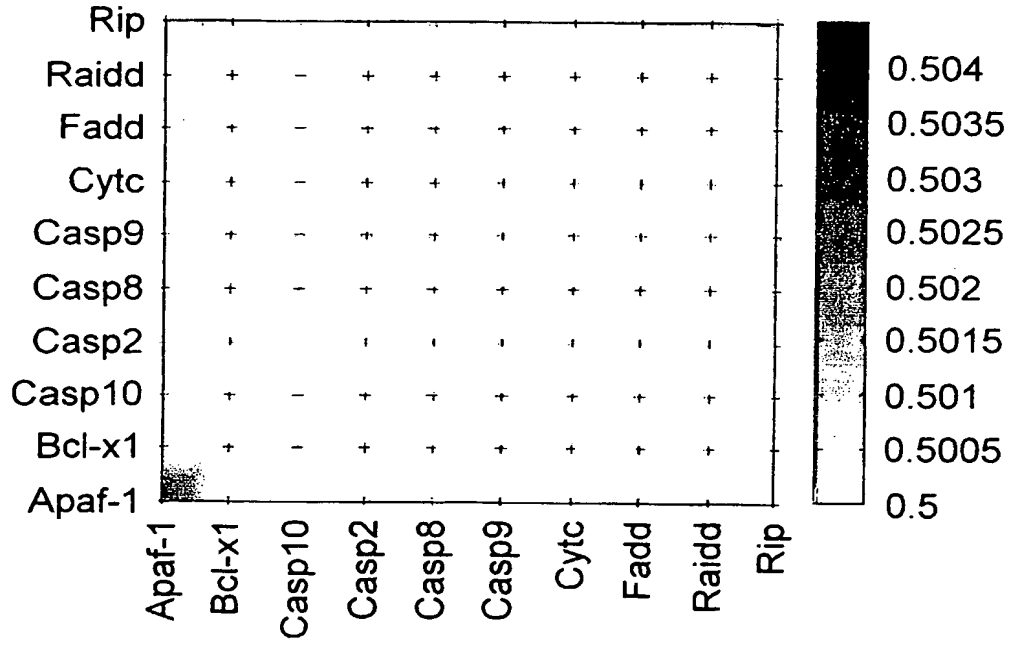

Rip
Raidd
Fadd
Cytc
Casp9
Casp8
Casp2
Casp10
Bcl-x1
Apaf-1
Apaf-1
Bcl-x1
Casp10
Casp2
Casp8
Casp9
Cytc
Fadd
Raidd
Rip
0.504
0.5035
0.503
0.5025
0.502
0.5015
0.501
0.5005
0.5

FIG.8

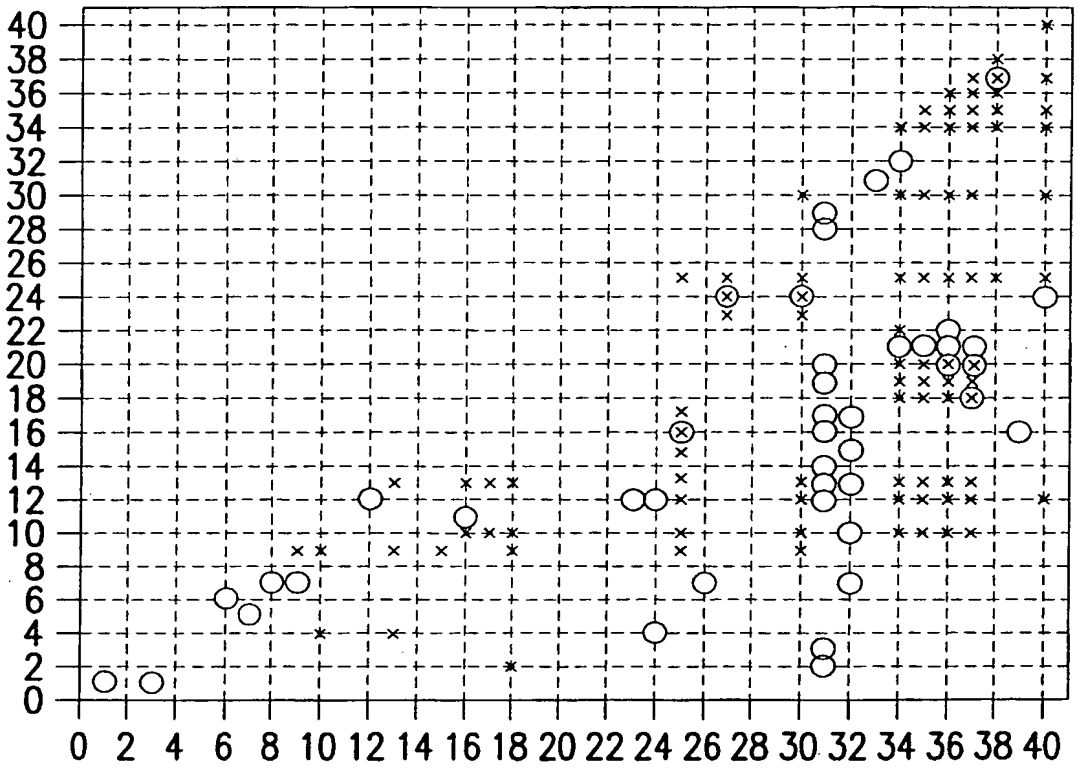
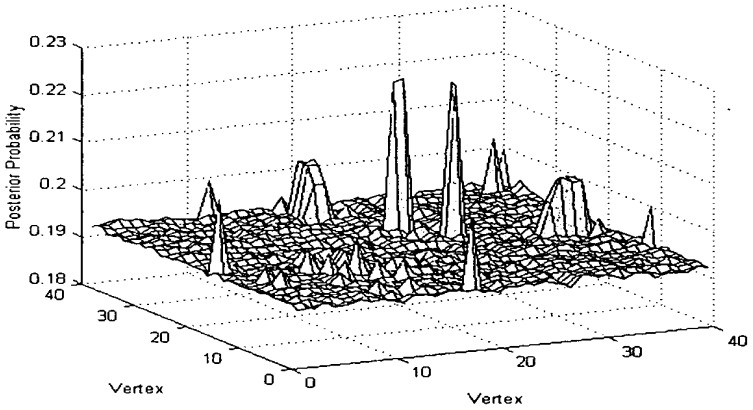

40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40

FIG. 9

FIG.10A



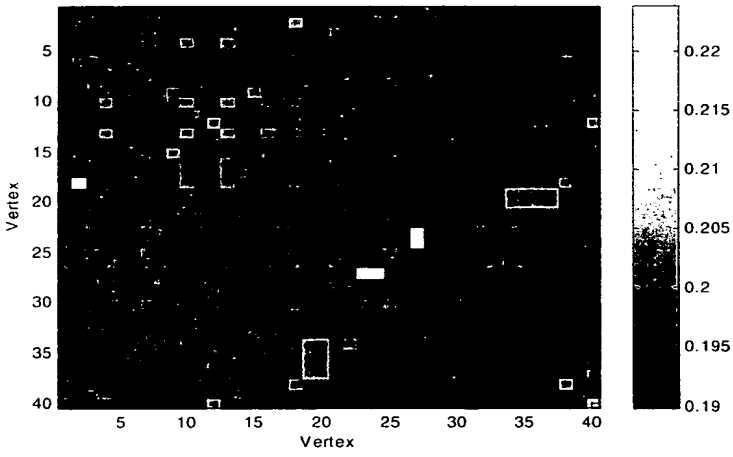
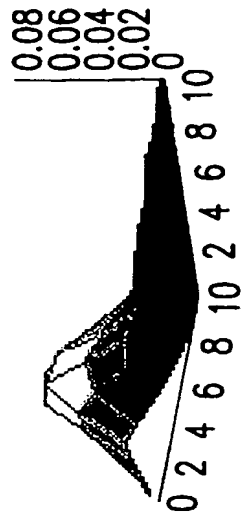




FIG.10B



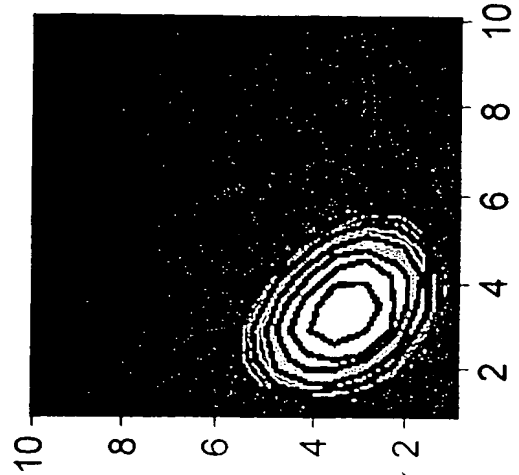
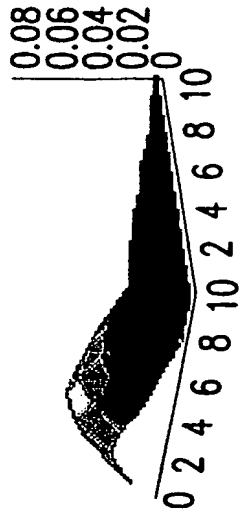




FIG. 11C



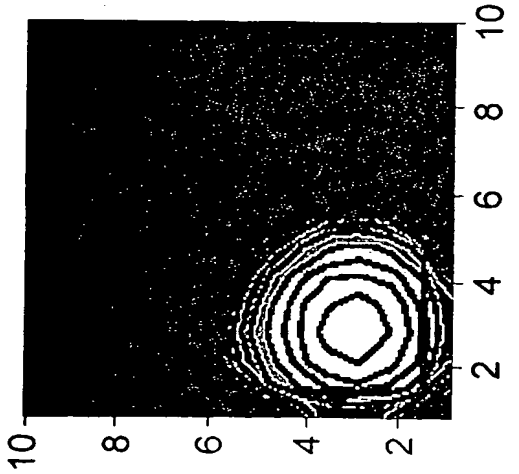
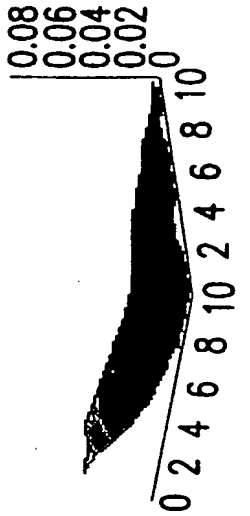




FIG. 11B



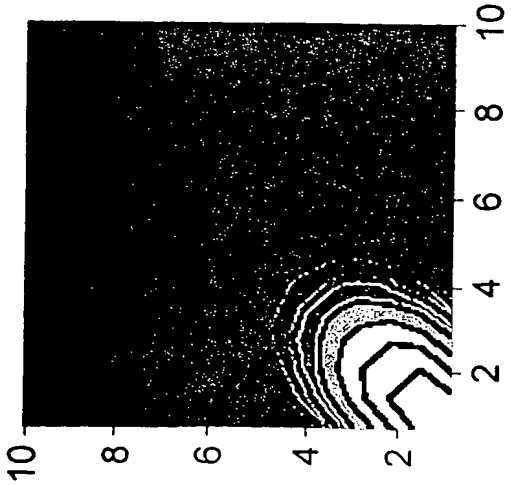




FIG. 11A

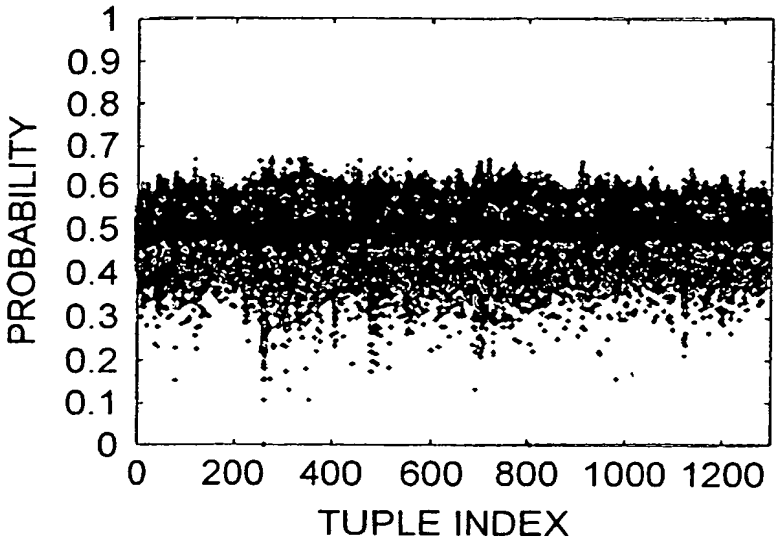



FIG.12A

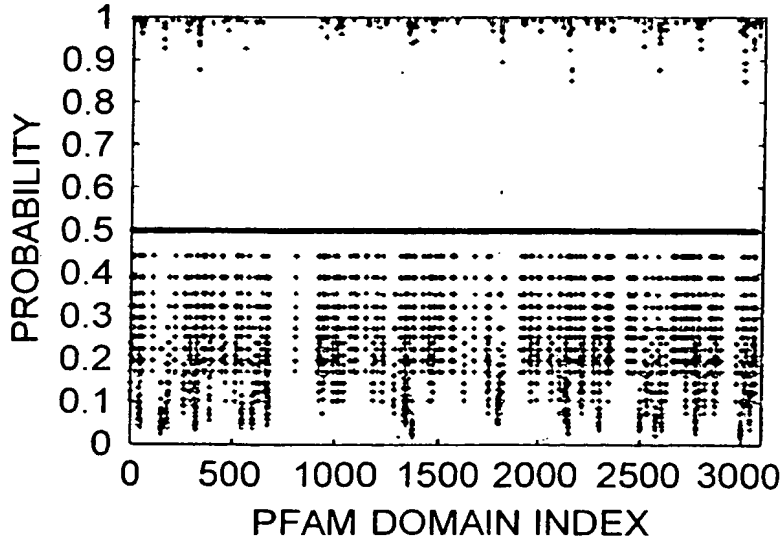



FIG.12B

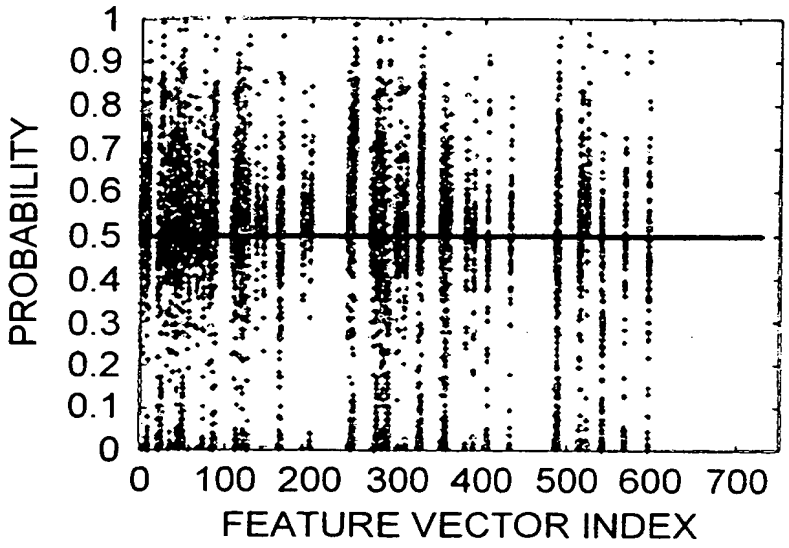



FIG.12C

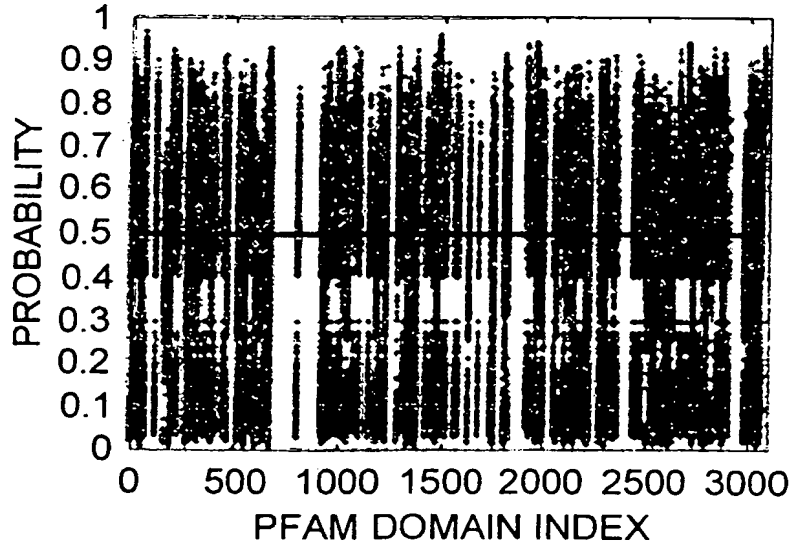



FIG.12D